

AMENDMENTS TO THE CLAIMS

1. - 14. (canceled)

15. (currently amended) A needleless injection device including a lower part receiving an agent cartridge and an upper part providing the energy needed for the injection, the upper part containing energy store units, including at least one start unit and at least one supplementary unit, capable of elastic form-change, the device further comprising:

a lock mechanism maintaining tension of the energy store units and a release mechanism for releasing the lock mechanism;

a tubular section of the lower part, provided with an external thread, extends extending into the upper part, the external thread coupling with an internal thread provided in the upper part, whereby wherein the lower part is attached to the upper part in a revolving manner, and is movable telescopically within the upper part for producing a tension state of the energy store units; and

a spacer moveable independently of the at least one supplementary unit within the upper part,
the spacer maintaining a uniform longitudinal space between the at least one start unit
and the lock mechanism from the time the tension state of the energy store units is
produced until the lock mechanism is released,

wherein:

the at least one start unit being is capable of storing 60-90% of the energy needed for total discharge and being capable of when incurring a reversible elastic distortion of 15- no more than 25% of an internal length of the agent cartridge; and wherein the at least one start unit includes a bundle of polyurethane springs fitted inside the device in a separate case; and

a the spacer transfers without impact the stored , movable independently of the at least one supplementary unit, applies energy from the springs of the at least one start unit via the lock mechanism to contents of the agent cartridge upon release of the locking mechanism.

16. (currently amended) The device according to claim 15, wherein the supplementary units comprise one of

- (a) as few as 2 and as many as 8 volute springs fitted coaxially in each other and surrounding the axis of the upper part and
- (b) volute springs positioned symmetrically about the axis of the upper part.

17. (currently amended) The device according to claim 15, wherein the release mechanism comprises a release button situated at the-an upper end of the upper part and attached to a release rod that extends along the axis of the upper part to the lock mechanism.

18. (currently amended) The device according to claim 16, wherein the release mechanism comprises a release button situated at the-an upper end of the upper part and attached to a release rod that extends along the axis of the upper part to the lock mechanism.

19. (previously presented) The device according to claim 15, wherein a discharge hole in the agent cartridge is formed by an opening through the material of the agent cartridge.

20. (previously presented) The device according to claim 16, wherein a discharge hole in the agent cartridge is formed by an opening through the material of the agent cartridge.

21. (previously presented) The device according to claim 17, wherein a discharge hole in the agent cartridge is formed by an opening through the material of the agent cartridge.

22. (previously presented) The device according to claim 15, wherein a discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

23. (previously presented) The device according to claim 16, wherein a discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

24. (previously presented) The device according to claim 17, wherein a discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.

25. (previously presented) The device according to claim 18, wherein a discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.
26. (previously presented) The device according to claim 19, wherein the discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.
27. (previously presented) The device according to claim 20, wherein the discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.
28. (previously presented) The device according to claim 21, wherein the discharge hole of the agent cartridge is situated along the axis of symmetry of the agent cartridge.